



National Aeronautics and Space Administration  
Goddard Space Flight Center

Wallops Flight Facility, Wallops Island, Virginia

# Inside Wallops

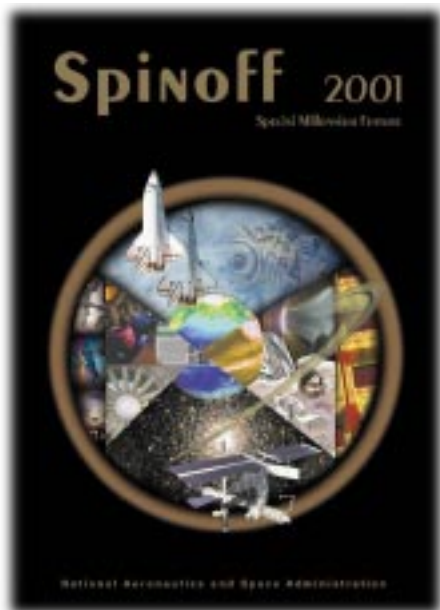
Volume XX-02

Number: 07

March 4, 2002

## NASA Publication Brings Space Technology Down To Earth

One of the most important byproducts of aerospace exploration and research is finding ways to apply these cutting-edge technologies to life here on Earth. Many of the conveniences people take for granted today were first developed by NASA.



These latest agency innovations are now featured in the 2001 issue of *Spinoff*.

A new video enhancement tool and a non-invasive heart monitor are just a couple of the agency's nearly 50 commercialized products featured.

In addition to highlighting new commercial products benefiting from NASA technology, *Spinoff* revisits past innovations in a special millennium feature-section.

Since 1976, *Spinoff* has showcased more than 1,300 public benefits of NASA's commercial partnerships with private industry.

The publication also covers the agency's research and development activities and serves as a reference resource to the agency's commercial technology network.

Since NASA's inception in 1958, technologies resulting from the space program have introduced Americans to hundreds of new or improved products.

The 2001 *Spinoff* describes the latest products in the areas of health and medicine, transportation, public safety, computer technology, manufacturing technology, consumer/home/recreation,

and environment and resources management.

Online versions of *Spinoff*, beginning with the 1996 issue, are available on the Internet. The web site also contains a searchable database of all technologies featured the past 26 years. Anyone wishing to request the 2000 or 2001 issue should call Betty Flowers in the Public Affairs Office on extension 1584.

Further questions may be addressed by e-mail to the editors at: [spinoff@sti.nasa.gov](mailto:spinoff@sti.nasa.gov)

Additional information about the NASA Technology network and an online version of *Spinoff* are available on the Internet at:  
<http://www.sti.nasa.gov/tto/>  
<http://www.nctn.hq.nasa.gov/>

## First Spacewalk Complete

NASA astronauts John Grunsfeld and Richard Linnehan completed the first spacewalk of the STS-109 mission on Monday morning, March 4.

The two spent approximately seven hours outside the space shuttle, installing a new solar array on the Hubble Space Telescope and stowing the old one for return to Earth. The first tests of the solar array's "aliveness" were successful.



The STS-109 crew will perform five spacewalks in five consecutive days to service the telescope. Grunsfeld and Linnehan also will conduct the third and fifth spacewalks. James Newman and Michael Massimino will perform the second and fourth spacewalks.

Space shuttle Columbia lifted off at 6:22:02:08 a.m. EST (11:22:02:08 GMT) on March 1 beginning the Hubble Space Telescope 3B servicing mission. This was the 27th flight of the vehicle and 108th in the history of the Shuttle program.

For the latest on the STS-109, go to: <http://spaceflight.nasa.gov/shuttle/>

## Wallops Shorts

### Sounding Rocket Launches

A NASA Black Brant V sounding rocket was launched in conjunction with three Taurus-Orions to conduct chemical releases from Poker Flat Research Range, Alaska, on February 21. The Black Brant V carrying an instrumented payload was launched first, followed by the Taurus-Orions carrying Trimethyl Aluminum (TMA) at two-minute intervals.

The mission, Coupling of Dynamics and Aurora 2002 (CODA), was to study the relationship between the composition and winds and the turbulence and vertical circulation generated in the lower E-region by auroral forcing.

Dr. Andrew Christensen, The Aerospace Corporation, was the principal investigator for the Black Brant V. Dr. Miguel Larsen, Clemson University, was the principal investigator for the Taurus-Orions.

### Associate Branch Head

Steve Nelson, Assistant Director of Applied Engineering and Technology, has announced the recent selection of Drew Green as Associate Branch Head of the Electrical Systems Branch.

### On the Road

Jay Savage and Scott Webb, NASA Information Services and Advanced Technology, participated in Career Day at Northampton High School on February 27. Approximately 800 juniors and seniors from Northampton and Broadwater Academy attended.

## NASA Scholarship Fund Applications

College scholarships are available for qualified dependents of NASA and former NASA employees. The scholarships are provided and awarded by the NASA College Scholarship Fund, Inc.

Noted Pulitzer Prize winning author, James Michener, established the scholarship fund as the direct result of a substantial unsolicited gift offer.

Six scholarships will be awarded in the amount of \$2,000 each, renewable for a maximum of \$8,000 over 6 calendar years. For additional information and a copy of the application, use the following URL:  
<http://jscpeople.jsc.nasa.gov/jsc-hro-2/specialprogs/scholarship.htm>

Applications may be obtained from the Public Affairs Office, Building F-6, Room 108. Applications are due by March 22, 2002.

**Empower Your Career!**

NASA is dedicated to seeing that employees have ample resources and tools to empower their career. As a result, it provides a variety of programs intended to enrich career development skills.

The Career Development Forum is scheduled for March 12, 13 and 28 at Greenbelt, Headquarters and Wallops respectively, and is to reacquaint employees with available programs and provide insights from employees who have successfully used them.

The itinerary for the first day of the Career Forum, scheduled to commence at GSFC, Greenbelt, on March 12 is shown below. The Forum will be held at Wallops on March 28.

Visit the Career Development Forum website at <http://ohr.gsfc.nasa.gov/Hot/ForumLayout.htm> for more information.

**This event will include:  
Career Panel Discussion --  
Greenbelt**

Technical Panel: Rick Obenschain, Gil Colon, Ryan Turner, Darryl Lakins, James Barrowman Professional Administrative: Cheryl Jones, Sharon Wong, Valorie Burr, Kathy Dinsmore, Kecia Ford and Sara Jensen

**Wallops**

Panel I: John Hickman, Craig Purdy, Sandy Kleckner, Betty Flowers, Prasad Hanagud, Orlando Figueroa  
Panel II: Bruce Underwood, John Gerlach, Tony Baldwin, Debbie Parks, Lisa Johnson, Caroline Massey, Thomas “Jay” Pittman

**Headquarters**

Albert Condes, Pamela Covington, Pedro (Pete) Jimenez, James Wilk, Sharon Boykins, Latonya Alexander, Joan Verbeck

**Web Demonstrations**

“One Stop Career Development Web-site”

“Professional Development, Education and Training”

“Skill Development Portfolio Building and Resource Tools

**Workshops**

“Achieving Personal Greatness in Your Career”

“The ABC’s of Humor, Attitude, Balance, and Consistency”

“How Did You Get Here and Where Are You Going?”

**Lunch Time Workshop  
(Brown Bag)**

“Excelling at Your Career Without Undermining Your Health: The Nutrition Connection”

**Visitor Center Star Party**

A Star Party will be held at the NASA Visitor Center on Saturday, March 16. Events planned include the following:

**3 p.m. — “Night Sky”**

This program, targeted towards children in kindergarten through third grade, introduces objects visible in the night sky - the Moon, stars, planets, and comets. Children participate in a hands-on activity and create their own glow-in-the-dark constellation. Parents are encouraged to attend this 40-minute program. No reservations are necessary and all materials are provided.



**6 p.m. - 7 p.m. — “Astronomy & the Hubble Space Telescope”**

In this program for students in and beyond the fourth grade and adults, learn about stars, galaxies, black holes, and other fascinating objects in the Universe. Activities include deciphering a coded message from space and classifying galaxies by their shapes.

**7 p.m. - 10 p.m. — “Evening Sky”**

An event for the entire family, watch the stars become visible as the Sun disappears below the horizon. Get a closer view of stars and planets through our telescope. If you have your own telescope, bring it along! This event will be cancelled if it is raining or overcast skies.

The Visitor Center is open Thursday through Monday from 10 a.m. to 4 p.m. For further information, call x2298

**Supervisory Feedback**

Two Supervisory Feedback Process focus group sessions will be held on Tuesday, March 12 in Building E-2.

Supervisors Focus Group: 10 to11 a.m.

Non-supervisors Focus Group: 1 to 2 p.m.

For more information about the Supervisory Feedback Process and to view a copy of the Goddard Supervisor Evaluation Surveyv visit: [http://ohr.gsfc.nasa.gov/performance/supervisor\\_survey.htm](http://ohr.gsfc.nasa.gov/performance/supervisor_survey.htm)

For additional information on the supervisory feedback process, contact Christina Reed at 66-3729.



**St. Patrick’s Day  
Celebration**

4:30 p.m.  
March 15  
Building F-3

**For Sale**

1996 Toyota Celica 25th Anniv. Convertible. Black with tan power top. Clean and Sharp. \$9950. Call Mike on x1174.

**Security Tip**

Never leave your keys in the car, even at the gas pump.

It’s easy for a thief to steal your car after it has been filled with gas. Often we pay for gas at the pump with a credit card and leave the keys in the car as we fill the tank. A thief lurking around the corner will wait until you are finished filling the car, rush in, push you aside and jump in your car. With the keys still in your ignition, he’s able to drive off.

The station’s security cameras may record all this, but you are not assured that your car will be recovered or that the thief will be identified.

Always pocket your keys! Even if you are standing three feet from the door of your car, someone can steal it if they have the keys you left in the ignition.

**All Hands Meeting  
with Center Director A. V. Diaz  
at 10 a.m. on March 7**

Discussions will include the latest in our safety and security status, impact of our current budget, human capital and the President’s management agenda. A question and answer session will follow. Wallops employees can view the presentation on Wallops TV Channel 6. Questions may be telephoned in to x66-6146.

**Weekend Residential Camp**

The Virginia Space Flight Academy will be holding weekend residential camps during March, April, May and June for students in grades six through eight.

Campers arrive at 9 a.m. on Saturday and leave at 4 p.m. on Sunday. The cost, \$150, includes housing, meals and all instructional materials.



The next weekend camp, March 16 and 17, will feature astronomy with Dr. Andrew J. Pica, Salisbury University.

Campers will learn how a telescope works, build a scale model of the solar system and find out about black holes and quasars. The universe will be your laboratory for this fun-filled expedition.

For information contact Bob Marshall, (757) 824-3800 or toll free on (866)-75SPACE.

*Inside Wallops* is an official publication of Goddard Space Flight Center and is published by the Wallops Office of Public Affairs, Extension 1584, in the interest of Wallops employees.

Editor  
Printing

Betty Flowers  
Printing Management Office

<http://www.wff.nasa.gov>